Figure 1A

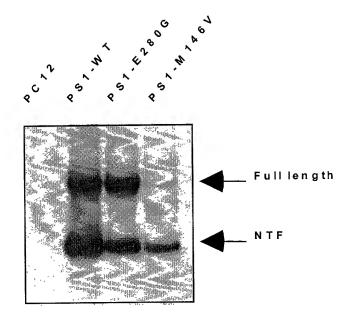


Figure 1B

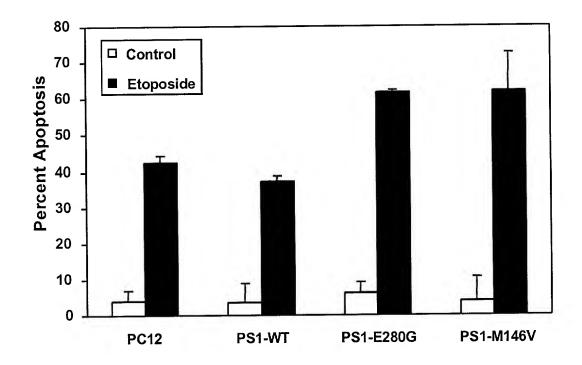
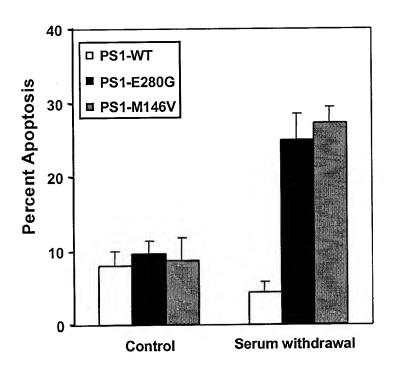


Figure 1C



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Figure 1D

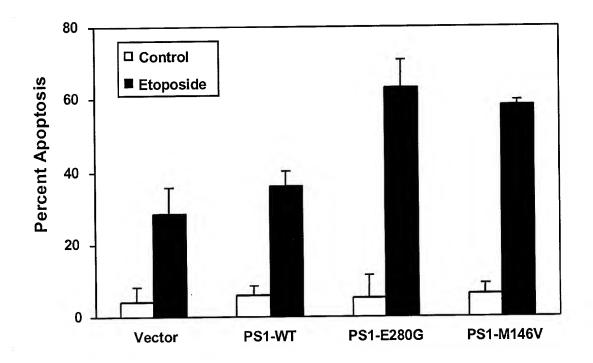


Figure 2A

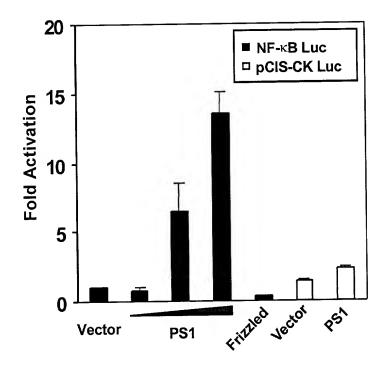


Figure 2B

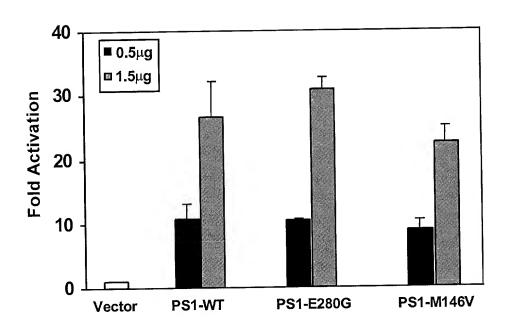


Figure 3A

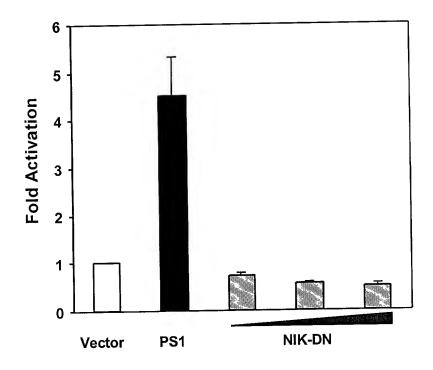


Figure 3B

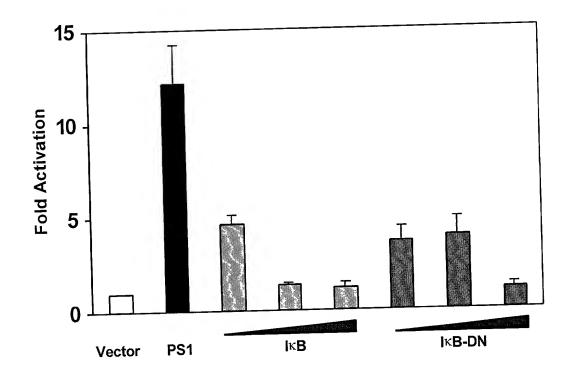


Figure 4A

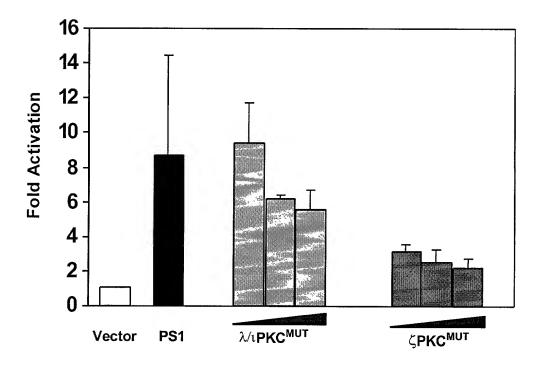


Figure 4B

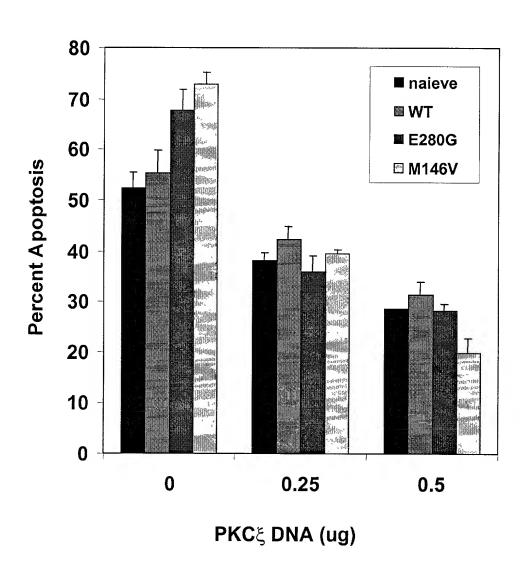


Figure 4C

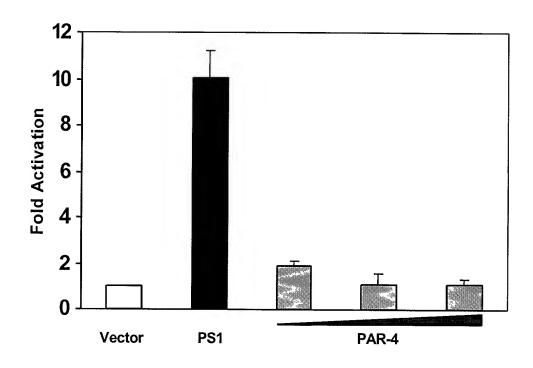


Figure 4D

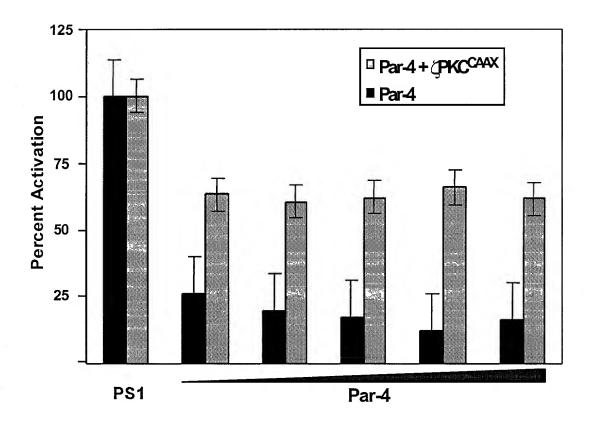


Figure 4E

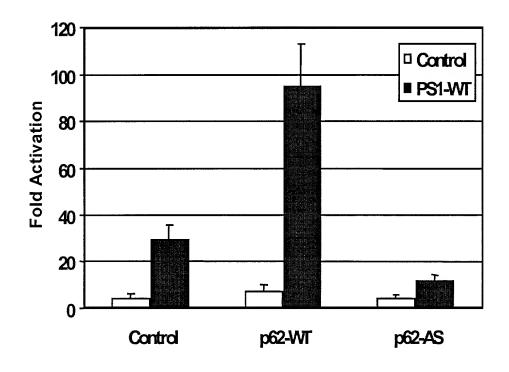
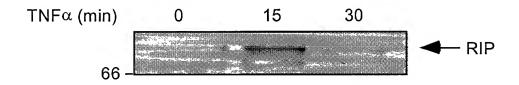


Figure 5A



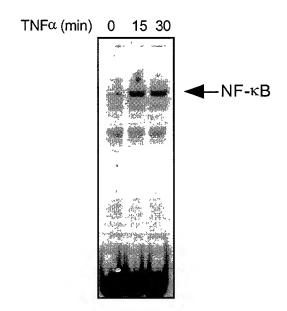


Figure 5B

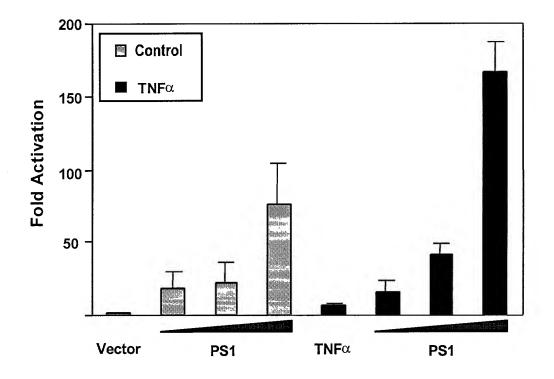


Figure 5C

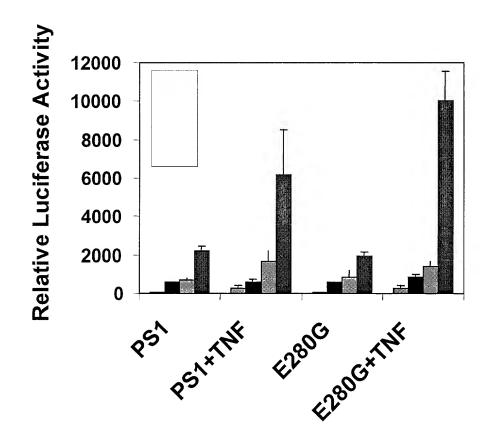


Figure 6A

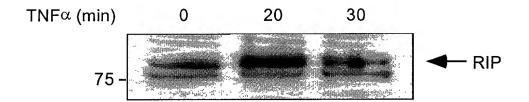
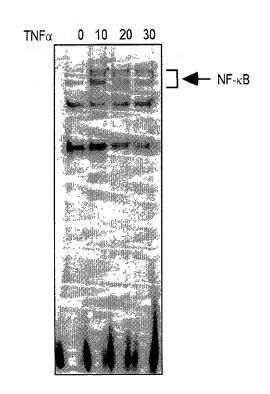


Figure 6B



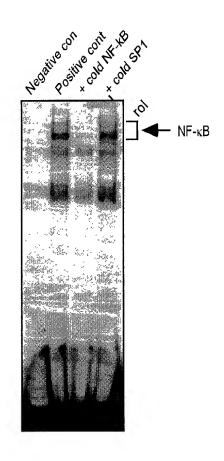


Figure 7A

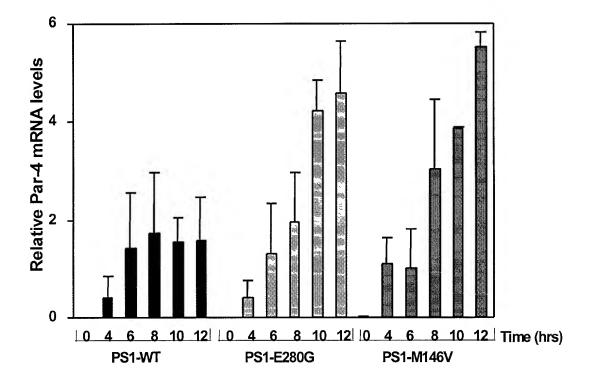


Figure 7B

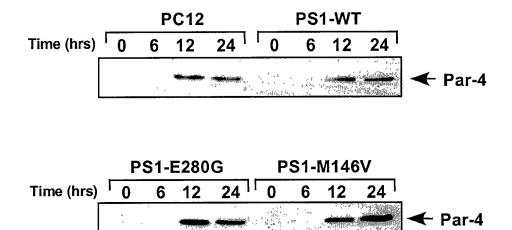
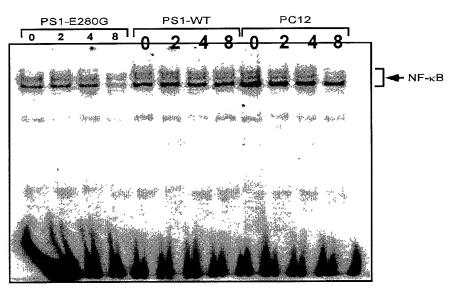


Figure 8



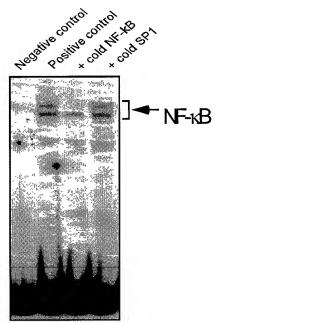
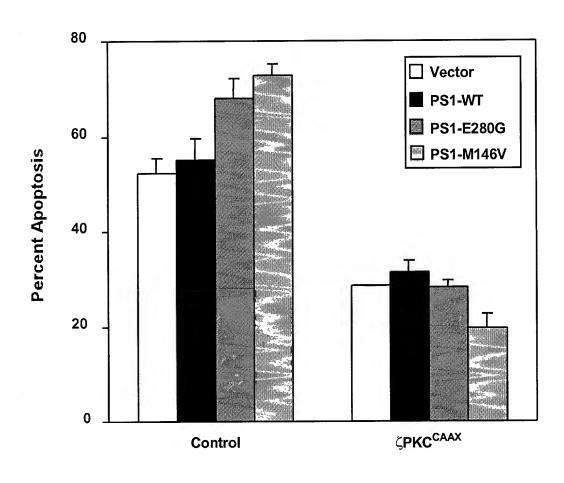


Figure 9A



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Figure 9B

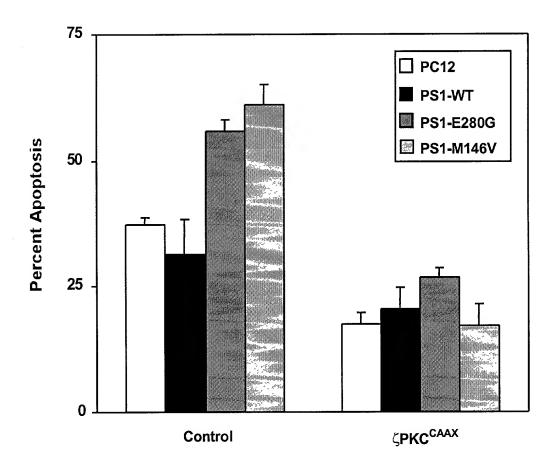


Figure 10

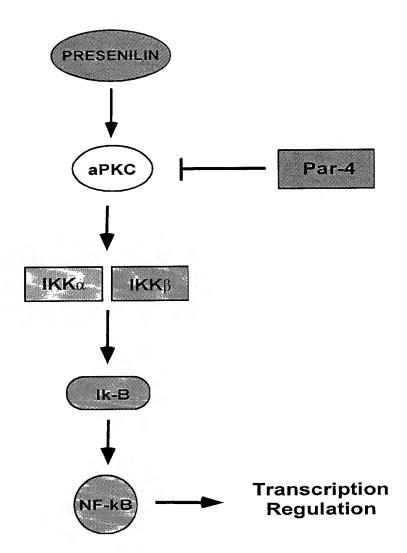


FIGURE 11A

TGGGAAGCCCCCGCGGGGGCTCTGGGCACCCCGGCGGCCGCTGCCAACGAGCTCAACA ACAACCTCCCGGGCGCGCCGCCGCCCCCCCCCCCCGGTCCCCGGGGGCGTGAACTGC CGAGCCCCAGCCGCCTCTGCCTCGGCTGCACCGCCCCCAGCGTGACGAGGAGGAGCCGG ACGGCGTCCCAGAGAGGGCAAGAGCTCGGGCCCCAGTGCCAGGAAAGGCAAGGGCAGATC GAGAAGAGGAAGCTGCGGGAGAAGCGGCGCTCCACCGGCGTGGTCAACATCCCTGCCGCAGA GTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAA TTACACAACAGAACACTATTCAGAATGAAGCTGTAAACTTACTAGATCCAGGCAGTTCCTAT CTGCTACAGGAGCCACCTAGAACAGTTTCAGGCAGATATAAAAGCACAACCAGTGTCTCTGA AGAAGATGTCTCAAGTAGATATTCTCGAACAGATAGAAGTGGGTTCCCTAGATATAACAGGG ATGCAAATGTTTCAGGTACTCTGGTTTCAAGTAGCACACTGGAAAAGAAAATTGAAGATCTT GAAAAGGAAGTAGTAACAGAAAGACAAGAAAACCTAAGACTTGTGAGACTGATGCAAGATAA AGAGGAAATGATTGGAAAACTCAAAGAAGAAATTGATTTATTAAATAGAGACCTAGATGACA TAGAAGATGAAAATGAACAGCTAAAGCAGGAAAATAAAACTCTTTTGAAAGTTGTGGGTCAG CTGACCAGGTAG

FIGURE 11B

MATGGYRTSSGGGSTTDWKAKRKMRAKNGAGGGSSDAAGKAGAGTAAAAANNNNGGAAAAVG GGVNCAVGSAMTRAARGRRSDAASASAARDDGVKGKSSGSARKGKGKRKRKRRSTGVVNAAC DYDDAGKRKRDATNTNAVNDGSSYRTVSGRYKSTTSVSDVSSRYSRTDRSGRYNRDANVSGT VSSSTKKDKVVTRNRVRMDKMGKKDNRDDDDNKNKTKVVGTRMATGGYRTSSGGGSTTDWKA KRKMRAKNGAGGGSSDAAGKAGAGTAAAAANNNNGGAAAAVGGGVNCAVGSAMTRAARGRRD AASASAARDDGVKGKSSGSARKGKGKRKRKR

FIGURE 12A

ATGACAGAGTTACCTGCACCGTTGTCCTACTTCCAGAATGCACAGATGTCTGAG GACAACCACCTGAGCAATACTGTACGTAGCCAGAATGACAATAGAGAACGGCAG GAGCACAACGACAGACGGAGCCTTGGCCACCCTGAGCCATTATCTAATGGACGA CCCCAGGGTAACTCCCGGCAGGTGGTGGAGCAAGATGAGGAAGAAGATGAGGAG CTGACATTGAAATATGGCGCCAAGCATGTGATCATGCTCTTTGTCCCTGTGACT AAGGATGGGCAGCTAATCTATACCCCATTCACAGAAGATACCGAGACTGTGGGC CAGAGAGCCCTGCACTCAATTCTGAATGCTGCCATCATGATCAGTGTCATTGTT GTCATGACTATCCTCCTGGTGGTTCTGTATAAATACAGGTGCTATAAGGTCATC TACTTGGGGGAAGTGTTTAAAACCTATAACGTTGCTGTGGACTACATTACTGTT GCACTCCTGATCTGGAATTTTGGTGTGGTGGGAATGATTTCCATTCACTGGAAA GGTCCACTTCGACTCCAGCAGGCATATCTCATTATGATTAGTGCCCTCATGGCC CTGGTGTTTATCAAGTACCTCCCTGAATGGACTGCGTGGCTCATCTTGGCTGTG ATTTCAGTATATGATTTAGTGGCTGTTTTGTGTCCGAAAGGTCCACTTCGTATG CTGGTTGAAACAGCTCAGGAGAGAAATGAAACGCTTTTTCCAGCTCTCATTTAC TCCTCAACAATGGTGTTGGTGAATATGGCAGAAGGAGACCCGGAAGCTCAA AGGAGAGTATCCAAAAATTCCAAGTATAATGCAGAAAGCACAGAAAGGGAGTCA CAAGACACTGTTGCAGAGAATGATGATGGCGGGTTCAGTGAGGAATGGGAAGCC CAGAGGGACAGTCATCTAGGGCCTCATCGCTCTACACCTGAGTCACGAGCTGCT GTCCAGGAACTTTCCAGCAGTATCCTCGCTGGTGAAGACCCAGAGGAAAGGGGA TCAGCAACAGCCAGTGGAGACTGGAACACCATAGCCTGTTTCGTAGCCATA TTAATTGGTTTGTGCCTTACATTATTACTCCTTGCCATTTTCAAGAAAGCATTG CCAGCTCTTCCAATCTCCATCACCTTTGGGCTTGTTTTCTACTTTGCCACAGAT TATCTTGTACAGCCTTTTATGGACCAATTAGCATTCCATCAATTTTATATCTAG

FIGURE 12B

MTELPAPLSYFQNAQMSEDNHLSNTVRSQNDNRERQEHNDRRSLGHPEPLSNGRPQGNSRQV VEQDEEEDEELTLKYGAKHVIMLFVPVTLCMVVVVATIKSVSFYTRKDGQLIYTPFTEDTET VGQRALHSILNAAIMISVIVVMTILLVVLYKYRCYKVIHAWLIISSLLLLFFFSFIYLGEVF KTYNVAVDYITVALLIWNFGVVGMISIHWKGPLRLQQAYLIMISALMALVFIKYLPEWTAWL ILAVISVYDLVAVLCPKGPLRMLVETAQERNETLFPALIYSSTMVWLVNMAEGDPEAQRRVS KNSKYNAESTERESQDTVAENDDGGFSEEWEAQRDSHLGPHRSTPESRAAVQELSSSILAGE DPEERGVKLGLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLCLTLLLLAIFKKALPA LPISITFGLVFYFATDYLVQPFMDQLAFHQFYI

FIGURE 13A

ATGCTCACATTCATGGCCTCTGACAGCGAGGAAGAAGTGTGTGATGAGCGGACGTCCCTAAT AGAACACTGCCCAGTGGAGAAGCCAGGAGAACGAGGAGGACGGTGAGGAGGACCCTGACCGC TATGTCTGTAGTGGGGTTCCCGGGCGGCCGCCAGGCCTGGAGGAAGAGCTGACCCTCAAATA CGGAGCGAAGCACGTGATCATGCTGTTTGTGCCTGTCACTCTGTGCATGATCGTGGTAG CCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACACGACATTC ACTGAGGACACCCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCAT GATCAGCGTCATCGTGGTTATGACCATCTTCTTGGTGGTGCTCTACAAGTACCGCTGCTACA AGTTCATCCATGGCTGGTTGATCATGTCTTCACTGATGCTGCTGTTCCTCTTCACCTATATC TACCTTGGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCCACCCTCTTGCTGAC TGTCTGGAACTTCGGGGCAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGCTGC AGCAGGCCTACCTCATCATGATCAGTGCGCTCATGGCCCTAGTGTTCATCAAGTACCTCCCA GAGTGGTCCGCGTGGGTCATCCTGGGCCCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTG TCCCAAAGGGCCTCTGAGAATGCTGGTAGAAACTGCCCAGGAGAAATGAGCCCATATTCC CTGCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGGCATGGCGAAGCTGGACCCCTCC TCTCAGGGTGCCCTCCAGCTCCCCTACGACCCGGAGATGGAAGAAGACTCCTATGACAGTTT TGGGGAGCCTTCATACCCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGGCT GGAGGAAGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGC TGGTGGCCAGGCCTGCCACGGCCAGCGGGACTGGAATACCACGCTGGCCTGCTTCGTG $\verb|CGCCTCCCCATCTCCATCACGTTCGGGCTCATCTTTTACTTCTCCACGGACAACCTGGTGC|\\$ GGCCGTTCATGGACACCCTGGCCTCCCATCAGCTCTACATCTGA

FIGURE 13B

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDPDR YVCSGVPGRPPGLEEELTLKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTF TEDTPSVGQRLLNSVLNTLIMISVIVVMTIFLVVLYKYRCYKFIHGWLIMSSLMLLFLFTYI YLGEVLKTYNVAMDYPTLLLTVWNFGAVGMVCIHWKGPLVLQQAYLIMISALMALVFIKYLP EWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVWTVGMAKLDPS SQGALQLPYDPEMEEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEEERGVKLGLGDFIFYSV LVGKAAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLV RPFMDTLASHQLYI

FIGURE 14

FIGURE 15

AGGCACGGTGGCTCACGCCTCTAATCCCAGCATTTTGGGAGGCTGAGGCAGGTGGATCATGAGG TCAGGAGTTCAAGACCAACCTGACCAACATGGTGAAGCCCCGTCTCTACTAAAAATACAAAAAT TAACCAGGCGTGTGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAA CCCGAAAGGTGAAGGTTGCTGTGAGCCTAGATCAGGCCACTGCACTCTGACCTGGGCGACAGAG CGAGACTCCATGTCAAAGAAAAAGAAGAGGGATAAGAAAATTTCCTAACTGGAAGGCAGATAGC TGATTAAAAGGGTCCACTGACTGCATAACATAATAATGATAAAAGACCAAATCAGAGCATATCT TCAAGATATTTCAGAGGATCTAAGTAAGAAGATCCAAAAATTTTTGAGACAGAAAATACAATGCA ATCAGAATGCCACTGGTCTTCTAAACAGCAACTCTGGAAACTAGATGATAATAAAGCAATGCCT TCAAAATTATGAAGGAAAATGCTTTCTAACCTAGAGTTCTATGCTCCACCAAACTATTAATCAA GTATGAAGATAAATTTAAAACATTTTCCAATATGCAAGGTCTCTAAGAATGAGTTATACTATCT TCAGAATATACTGAGGATATACTCTGCTAAAATGAAGGGGAGAAACAAAAAGAGAAAAAGTATGC AATTCAGGAAACAAGAAGTCTACAGAGAAAATGATTCTCAAGGTGTTAGAGGAGCATAATCCCA GGATGACCACAAGCAACGAGCCTTAAAATCAGTCCAGATTAGGCCAGGTGCGGTGGCTCACACC TGTAATCCCAGCACTTTGGGAGGCCAAAGCAGGCTGGTTGCCTGAGCTCAGAAGTTCGAGACCA GTCTGGGCAACATGGTGAAACCCCCGTCTCTACTAAAATACAAAAAATTAGCTGGGCGTGGTGG CATGTGCCTGTATTCCCAGCTACTCTGGAGGCTGATGCAGGAGAATTGCTTGAACCCAGGAGGC GGAGGTTGCAGTGAGCCAAGACTGCGCCACTACAGCCTCACCAACAGAGCGAGACTCCG TCTCCAAACAAACAAACAAATCAATCCATATTAAAGCAGGGGATGGAGGGCTCCAGAACAGAT GTTTCCAAAAAGAGAATAGAACTGATAGCTTACCCAATGTGATTAACGTCATTGAGAGGAGGAA AGGCAAGTTTTAACTGCAGAAAAATGGTAAAGACAAAAGGTATAGTTGTGCAACAAGGAAAAAC AGTTGTAAAAAAAAAAGAAATGCAATCATATACACCACATGACTCAGCTATGAACAGTATTTGTA TAGTCATAATACTACGGGCGTGTAGGAGTATGAAAAGTATATGTGTGGCCGGGCATGGTGGCTC ATGCCTGTAATCCCAGAACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGTCAGGAGATCGAGA AAAAAATTAGCCGGGCGTGGTGGCAGCCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAG GAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAG GTATATGTGTTATTAGTGTATTAGAGCTAAATCCTCTTCTATATCTAAAAATGGAAAAATCAAG ATGTACAATAGCAGATATGCACATAAAAAATAAATATGAAGATCTCTATTAATGGAACCAGTTA AAAAGTTCAAAGTTTTGGGTAGGGTTTTCAGAATGGATAAGGTAGAGAGGGGATTGCTGTTTTT TGTTAGAGGATGAATTGCATATGTTCCAGAAATACCTGCATTGAAGGCAAAATGGCTACTTCCC AATACACTAGCTATCCATACATATAATAATACACTTCCTCAAAATCATTAAGACTAACATCTAG GTTTCACTCTGACATATTTAAATGAATCTGTTTTTTGTCAGCATTATCATCATATTTCATTTTAT TATTAAGGGCAAGTGAGTCGCTAAAAATTGGTTATTTTAGGCTAACTCAGAGGTGCTCAACCGG GGAAGAATTTTATCCCAGGGACCATGTGGCAATGTCACAATACAGGTGGGGGTTTCTTATTGGT ATCTAATAGGTAGAAGCCAACGATGCTGCTAAACAACCTACAATGGGCAGGACAGCAAAGAATT ATCCAGCCCAAATGTAACAGTGCTGAGGTTGAGAAACCAAGCTCCAAGTCTTTGAGGATTATT GCTAAATACCTCGGTGCAATGTTGGAAGCAGTCTGGCTGTGAAATATATCTTCGGGAATATTGA GAATGGTAAAGACAAAAGGTATAATAAATGATAATAATAACAAAACACAGAGCTTTGTACCTCA ATAATCTCTTTCATCCATGGTTCCTAGGGCACTTTATAGACTAATAATACCTACTCTGGTACTC ACATACCACCTTTTATCTAAGGACTGCAGGCACTTTCACAACACTCTCACGATGCAGGAAGTAT TATTATCCCCATTTTATATGTAAGTAAACAGAGGCACAAAAGTTAAGCAACTTGCCCAAAGCCA CACAAGTCAGTAGCAGCCAAAATTCCTGACTCAGAACCTATTAACACTAAGAGAACTGGTCTAA CTGATATTGTATATTCAATACCCCATCTGTTATAATTTCCTCTTTCTCCCATACACTTCTTAGAG ACCAAGGACTTTAAGCCCCTAGAAGGGACTATGTTTACTGAGTGCCTTCCTCGAATCAAGCACA TTTTATGTGCAGTGTCAGTTCTTAAGACAGCTTAAATATAATGTAATTGGGAGGCTGAGAGCAG GAGAATTGCTTGAACTCAGGAGGCGGAGGTTGCAGTGAGCTGAGATCCCGCCACTGCACTCCAG CTCTTTCCACTATATCCTGCAGCCCTTCCAGGAGAAAAGTCCTCTGATAAGTTACAAAGCATAT TGAATATGTAATTGAGAAACTTCAGGTGGCACACTGGGGTTGGTACTAGCTTAGGTAAACAGCC GCTCAGCCTTTTAGACCTATTCCCAACAAAAGCTTTTAATTTTCTAAGGATTTTTCCAGAGCTC TCGCCATACGTTTCCCACAACAGCCAGACCAAAGACCAAAACTGTCTTTCCCTGAGAAATATAG CATGTGCTACCTGGGCAAAACAGGAATATTAAGTAGGAAGAAAGGTTTATGTTAGGTAAGAGCG TGACTTAGGGCTCTCCTACTTTTTTACAAAATGGAGACCTGGCATTTGTAGCCTCCCACAATGA TGTGCCCTGACATTACTTGGATATAGAAAGGTCAGTCTTAGGTGCGTCAGTGACAGCCCACCCC GCTCTGATCCAGAAATTTCAGATGACTTGCATCAGAGGATAAGCCTCTGGCATGTTAATAATGA AAAAATAGAGACAATCACTGCCCCAGCTCATCTCAAATTAGCATCAGTGCAGCGTTAGTACTTT GGTAGGGAGCTTTGCTGCTAAATTCATTCTCTGTAAAGAGGAGAGGCAGAGACAGGGTTAAGGG GAAAACTCCAAGACTGGAATCGCCAATACAATAAACTGTCGAACTGAGTTTTTTCTCCCGCAAC CCTAAGATACTAGTAAGTCCTTCCTCTTAGCCAACCCTTTTCACCAGGGCACCGCAGTTTTCTT AGAAGGAGGGTGCTGGGTTTGTCTCAGGTCTTTCTATTCTCCTGCCCGCTGCCCTAGTACATCT GAAAAGGGAGCAGCGACTAGGAAAAGAGACACGTGGGTATTTTCCCATCCTGTCTAGTCATTCC CTGAATCATCACAAGTTATCGCACTTTTCCCCCTTAGCCAGCGCGTTCGAGACTTTCTCTCAAA GAAGGGCGTGGAGTGCCGTTCCCGCCCCGGAGTCGGAGGCCCGGGAGGCCGGACGCCGCGAAG GCGACGCCGCGCACCTGAGCGCCGGGGGGGGGGGCGTCAGCGGCCACGACCCTTCCCACCGCGCG TTCGGCACACCTGGGAGCCGGATCCCAGCCCTACGCCTCGTCCCTACAAGCTCCTCCAAGGTA AGGCGCTCGCTCACACCCGGTCCTTTCCACGCTCGGCGGGACAGCTGGGTCCCCGCCTCCTCTG CGAACCGGCTAGGAGCTCCGCCCTCGCCTTGGGAGTGGGGTTGTAGCTGACGGGGACCTCGGA CCGGCGGTGGCTAGAGCGCGAGCAGGCGATACGACGAGCCGACAGGTGGCGGGTCTAGCCCTA GGGTCAGTCCTCTCTCCCTTCTAGGGGCCGCCGATCGTCGGGGTCCGTACTGTAGGTGCGTG GGAGAAACTTTGCAGGGTGGGGACCCGGCGGCTGCTGGCCGGTAGTGACTGGTGGGCGCGCTCG $\verb|CCCTGGTGGGCGGCCTGAGGTGAGAGCCCGACCGGCCCCTTTGGGAATATGGCGACCGGTGGCT|\\$ ACCGGACCAGCGGCGCCTCGGCGGCAGCACCACAGACTTCCTGGAGGAGTGGAAGGCGAAACG GCCGCTGGGAAGCCCCCCGCGGGGGCTCTGGGCACCCCGGCGGCCGC

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